PSTN

28

REMOTE
DATABASE

13

COMMUNICA-
TION DEVICE

VIDEO
I/O

34

22

DISPLAY

20

RECORDING
TRANSPORT

12

CONTROLLER

AUDIO
I/O

32

18

14

24

DEVICE
TRANSLATOR

30

16

NON-
VOLATILE
MEMORY

INFRARED
REMOTE
SENSOR

VOLATILE
MEMORY

10

OPTIONAL
KEYBOARD

26

FIG. 1

FIG. 2

GENERAL PURPOSE
QUICK LOOKUP CODES
SYSTEM SESSION STATE VARIABLES
TEXTUAL INFORMATION TO DISPLAY FOR CURRENTLY PLAYING RECORDING

FIG. 4

SYSTEM CONFIGURATION
DIRECTORY INFORMATION
DISC INFO. STRUCTURE #1
DISC INFO. STRUCTURE #2
DISC INFO. STRUCTURE #3
• • •
DISC INFO. STRUCTURE #N

MOVEMENT NO.	POINT	MOVEMENT ELAPSED TIME			0	ABSOLUTE TIME FOR POINT CONTENT		
		MIN.	SEC.	FRAME		P MIN.	P SEC.	P FRAME

FIG. 3

PRIOR ART

FIG. 5

DISC ARTIST
DISC TITLE
DISC TRACK TITLE #1
DISC TRACK TITLE #2
. . .
DISC TRACK TITLE #N
DISC RELATED URL
SYSTEM LOCATION

FIG. 6

RECORDING TRANSPORT

- CD/DVD ROM MINIDISC — 12a
- NON-VOLATILE MEMORY — 12b
- HARD DRIVE — 12c
- SATELLITE/WIRELESS — 12d
- INTERNET TCP/IP — 12e
- LAN — 12f
- DIGITAL INPUTS — 12g
- ANALOG INPUTS — 12h
- TERRESTRIAL RADIO BROADCASTS — 12i
- BROADBAND — 12j

12'

DEVICE TRANSLATOR

AUDIO
- RADIO STATION FREQUENCY
- CONTENT DESCRIPTION
- WAVE FORM ANALYSIS
- TOC
- ID3 TAG
- LYRICS/VOICE RECOGNITION

VIDEO
- PICTURE FRAME ANALYSIS
- CONTENT DESCRIPTION
- PROGRAM GUIDES

GPS

30'

14

CONTROLLER

18'

EMBEDDED CONTENT META-DATA DATABASE

COMMUNICATION NETWORK
- PSTN
- LAN
- WAN

28'

REMOTE DATABASE

13'

22'

DATA COMMUNICATION PROTOCOLS AND INTERFACES
- 802.11 A/B
- BLUETOOTH
- CELLULAR
- ETHERNET
- HPNA
- POWERLINE
- DTMF
- SATELLITE
- BROADBAND CABLE/DSL